

STIC Search Report

STIC Database Tracking Number: 150252

TO: Armando Rodriguez

Location: JEF-5A24

Art Unit: 2828

Friday, April 15, 2005

Case Serial Number: 10/672,181

From: Jeff Harrison Location: EIC 2800

JEF-4B68

Phone: 22511

Search Notes

Examiner Rodriguez,

Re: Your Request for an Electrode of Cu + a Cu Alloy in a Gas Laser, before 9/13/01

Please find attached the search history and the edited search results from Chemical Abstracts and INSPEC.

See especially the tagged JP2001015830, which has such an electrode in a laser apparatus. The abstract does not say "gas laser" but perhaps it would be useful.

If you would like more searching on this case, or if you have questions or comments, please let me know.

Respectfully, Jeff Harrison





15apr05 16:46:14 User259284 Session D3152.2

```
2:INSPEC 1969-2005/Apr W1
       (c) 2005 Institution of Electrical Engineers
Set
        Items
                Description
        42191
                CI=CU EL
S1
                CI=CU BIN
        19017
S2
                CI=CU(S)NE=3
S3
        30580
S4
        35551
                CI=CU(S)NE=2
                S2:S4 NOT CI=(CU SS(S)O SS)
S5
        43953
                S2:S4 NOT CI=(CU BIN(S)O BIN)
        55272
S6
                (CU OR COPPER) (2N) ALLOY??????
S7
        42442
                S1 AND (S5:S6)
S8
        15173
                S1 AND S7
         2108
S9
         1771
                8AND9
S10
        15510
                S8:S10
S11
                'GAS LASERS' OR 'DISCHARGE LASERS' OR 'GASDYNAMIC LASERS' -
S12
        46746
             OR 'ION LASERS' OR CC='A4255D' OR GAS(2N)LASER???? OR (CO OR -
             CO2 OR DIOXIDE OR F OR ARF OR FLOUR ?????? OR AR OR ARGON) (2N) -
             LASER?????
         2419 R1:R3 OR BIMETAL? OR BI()METAL???????
S13
          171
                11AND12
S14
                11AND13
S15
           87
            0
                14AND15
S16
                (CU OR COPPER OR S1:S11) AND S13 AND S12
            0
S17
                S15 AND (ANODE?? OR CATHODE?? OR ELECTRODE??)
S18
                (S1:S11 OR S13:S18) AND S12
S19
         1347
                S19.AND (ANODE?? OR CATHODE?? OR ELECTRODE??)
          101
S20
                S20 NOT S18
          101
S21
                S21 AND (CU OR COPPER) (3N) ELEMENTAL
S22
            2
                S21 AND (CU OR COPPER) (3N) METAL
S23
            1
                S21 AND (CU OR COPPER) (3N) METALLIC
            0
S24
S25
                (CU OR COPPER) (4N) (BIMETAL? OR BI() METAL??????)
S26
          197
                 (CU OR COPPER) (4N) (ELECTRODE?? OR ANODE?? OR CATHODE??)
         3050
S27
                26AND27
            5
S28
```

```
FILE 'HCAPLUS' ENTERED AT 16:50:17 ON 15 APR 2005
                E BIMETALLIC/CT
                E E4+ALL/CT
          29267 SEA ABB=ON PLU=ON BIMETAL? OR DIMETAL? OR (BI OR DI OR TWO
L1
                OR 2) (W) METAL#######
     FILE 'REGISTRY' ENTERED AT 16:51:27 ON 15 APR 2005
              1 SEA ABB=ON PLU=ON COPPER/CN
L2
          82218 SEA ABB=ON PLU=ON COPPER ALLOY
L3
          30855 SEA ABB=ON PLU=ON CU>75/MAC
L4
          29861 SEA ABB=ON PLU=ON L4 NOT O/ELS, MAC
L5
     FILE 'HCAPLUS' ENTERED AT 16:53:45 ON 15 APR 2005
          17384 SEA ABB=ON PLU=ON L2 AND (L3 OR L5)
L6
            231 SEA ABB=ON PLU=ON L1 AND L6
1.7
                                   L7 AND GAS DISCHARGE
              O SEA ABB=ON PLU=ON
r_8
                                    L7 AND LASER
              2 SEA ABB=ON
                           PLU=ON
L9
                                   L7 AND ELECTRODE
             14 SEA ABB=ON
                           PLU=ON
L10
              4 SEA ABB=ON PLU=ON L7 AND DISCHARG######
L11
             18 SEA ABB=ON PLU=ON
                                    (L9 OR L10 OR L11)
L12
                D ALL HITSTR TOT
              2 SEA ABB=ON PLU=ON (LASER OR LASE### OR LASING OR VCSEL OR
L13
                VERTICAL CAVITY OR GAS###(2A)ELECTRODE) AND L7
              O SEA ABB=ON PLU=ON L13 NOT L12
L14
             14 SEA ABB=ON
                            PLU=ON ELECTRODE AND L7
L15
                            PLU=ON ELECTRODE AND L6
           1329 SEA ABB=ON
L16
                            PLU=ON L6 AND LASER
            375 SEA ABB=ON
L17
             13 SEA ABB=ON
                                    L6 AND GAS####(2A)LASER
                            PLU=ON
L18
             13 SEA ABB=ON
                                    L6 AND LASER (4A) ELECTRODE
                            PLU=ON
L19
                            PLU=ON L6 AND ELECTRODES (L) LASER
             13 SEA ABB=ON
L20
                            PLU=ON L6 AND LASERS(L) (ELECTRODE OR CONDUCTOR)
              8 SEA ABB=ON
L21
                                    (CU OR COPPER) (4W) (CU OR COPPER)
         112046 SEA ABB=ON
                            PLU=ON
L22
                            PLU=ON
                                    L6 AND L22
           6348 SEA ABB=ON
L23
                                    (CU OR COPPER) (4W) (CU OR COPPER) (4W) ALLOY##
          13950 SEA ABB=ON
                            PLU=ON
L24
                ####
          13950 SEA ABB=ON
                            PLU=ON
                                    L22 AND L24
L25
                                    L6 AND (CU OR COPPER) (4W) ALLOY####(4W) (CU
           1503 SEA ABB=ON
                            PLU=ON
L26
                OR COPPER)
                           PLU=ON L6 AND ALLOY####(4W)(CU OR COPPER)(4W)(CU
L27
            635 SEA ABB=ON
                OR COPPER)
                            PLU=ON L23 AND L25
L28
           3613 SEA ABB=ON
                                    (L26 OR L27 OR L28) AND GAS DISCHARG####
              3 SEA ABB=ON PLU=ON
L29
             57 SEA ABB=ON PLU=ON
                                    (L26 OR L27 OR L28) AND LASER
L30
              4 SEA ABB=ON PLU=ON
                                    (L26 OR L27 OR L28) AND LASER (3A) (GAS#####
L31
                OR DISCHARG#####)
             39 SEA ABB=ON PLU=ON L15 OR (L18 OR L19 OR L20 OR L21) OR L29
L32
                OR L31
             25 SEA ABB=ON PLU=ON
                                    L32 NOT L12
L33
                D ALL HITSTR TOT
             43 SEA ABB=ON PLU=ON
                                    L32 OR L12
L34
L35
             53 SEA ABB=ON
                            PLU=ON
                                    L30 NOT L34
              1 SEA ABB=ON PLU=ON
                                    L35 AND (CATHODE OR ANODE)
L36
                D ALL HITSTR
          10540 SEA ABB=ON PLU=ON LASERS(L)(CO2 OR CARBON DIOXIDE)
1.37
     FILE 'REGISTRY' ENTERED AT 17:04:32 ON 15 APR 2005
           1672 SEA ABB=ON PLU=ON CARBON DIOXIDE
L38
     FILE 'HCAPLUS' ENTERED AT 17:04:50 ON 15 APR 2005
           6255 SEA ABB=ON PLU=ON L38(L) LASER
L39
L40
              2 SEA ABB=ON PLU=ON
                                    L35 AND (L37 OR L38 OR L39)
              1 SEA ABB=ON PLU=ON L40 NOT L36
L41
             44 SEA ABB=ON PLU=ON L36 OR L33 OR L12
L42
              1 SEA ABB=ON PLU=ON L40 NOT L42
L43
                D ALL HITSTR
              5 SEA ABB=ON PLU=ON L6 AND (FOOTPRINT#### OR FOOT(W)PRINT#######
T.44
```

· ·

4/15/05 10/672,181
3 SEA ABB=ON PLU=ON L44 NOT (L40 OR L36 OR L34) D ALL HITSTR TOT
FILE 'METADEX' ENTERED AT 17:59:03 ON 15 APR 2005 E COPPER/CT
76053 SEA ABB=ON PLU=ON COPPER/CT 50593 SEA ABB=ON PLU=ON (CU OR COPPER)(3A)ALLOY######### 12260 SEA ABB=ON PLU=ON L46 AND L47
176 SEA ABB=ON PLU=ON LASER AND L48 15 SEA ABB=ON PLU=ON L49 AND (ANODE? OR CATHODE? OR ELECTRODE?)
D L50 ALL TOT
FILE 'COMPENDEX' ENTERED AT 18:02:52 ON 15 APR 2005 E GAS LASERS/CT E E3+ALL/CT OR "LASERS CAS"/CT OR

L51 18486 SEA ABB=ON PLU=ON ("GAS LASERS"/CT OR "LASERS, GAS"/CT OR "CARBON DIOXIDE LASERS"/CT OR "GAS DYNAMIC LASERS"/CT OR "HELIUM NEON LASERS"/CT) OR LASER###(2A)GAS######

L52 3759 SEA ABB=ON PLU=ON (CU OR COPPER)(4A)(ANODE OR CATHODE OR ELECTRODE)

L53 36 SEA ABB=ON PLU=ON L51 AND L52

L54 6 SEA ABB=ON PLU=ON L53 AND (ALLOY######## OR BIMETAL? OR BI

METAL####)
D ALL TOT